

CURRICULUM VITAE

A. BIOGRAPHICAL INFORMATION

Erin Janelle Aiello Bowles, MPH
Kaiser Permanente Washington Health Research
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B. EDUCATION

University of Washington, Seattle, WA. MPH, Epidemiology, 2000-2002.
University of California, Irvine. BS, Applied Ecology, *magna cum laude*, 1996-2000.

C. PROFESSIONAL POSITIONS

Research Associate IV, Kaiser Permanente Washington Health Research Institute, Kaiser Foundation Health Plan of Washington*, 2018-present
Research Associate III, Kaiser Permanente Washington Health Research Institute, Kaiser Foundation Health Plan of Washington*, 2010-2018
Research Associate II, Group Health Research Institute,* 2005-2010
Research Associate I, Group Health Research Institute,* 2002-2005.
Data Coordinator IV, Fred Hutchinson Cancer Research Center, 2002-2003.
Research Assistant, Fred Hutchinson Cancer Research Center, 2000-2002.
Intern, Breast and Cervical Health Program (BCHP), Public Health – Seattle & King County, 2001.
Research Assistant at the Center for Occupational and Environmental Health, University of California, Irvine, 1999-2000.

D. HONORS, AWARDS, AND SCHOLARSHIPS

Exceptional Reviewer for *Medical Care*, 2007
Second Place Poster Award, Society for Epidemiologic Research, 2007
First Place Poster Award, HMO Research Network Conference, 2007
Exceptional Reviewer for *Medical Care*, 2006
Best Poster Award (1st place), American Society of Preventive Oncology, 2006.
Best Poster Award (3rd place), American Society of Preventive Oncology, 2005.
Student-Postdoc Advisory Committee travel award, Fred Hutchinson Cancer Research Center, 2002.
Washington State funded research assistant, University of Washington, 2000-2001.
Magna cum laude, University of California, Irvine, 2000.
Undergraduate Research Opportunities Program grant recipient, University of California, Irvine, 2000.
Social Ecology Honors Research Seminar, University of California, Irvine, 1999-2000.
Phi Beta Kappa Society (junior year nomination), University of California, Irvine, 1999-2000.
Golden Key National Honor Society, University of California, Irvine, 1998-2000.
Regent's Scholar, University of California, Irvine, 1996-2000.
Valedictorian, Abraham Lincoln High School, San Jose, CA, 1996.

E. OTHER PROFESSIONAL ACTIVITIES

Editorial Boards: PLOS ONE (Academic Editor)

Manuscript Reviews (*Reviewed manuscripts in the past year)

*Kaiser Permanente acquired Group Health in February 2017, at which point Group Health Research Institute became Kaiser Permanente Washington Health Research Institute.

Alzheimer's and Dementia
*American Journal of Preventive Medicine**
Annals of Oncology
BMC Cancer
BMC Medical Informatics and Decision Making
BMC Research Notes
BMJ Open
Breast Cancer Research
Breast Cancer Research and Treatment
British Journal of Cancer
*Cancer Causes & Control**
Cancer Control: Journal of the Moffitt Cancer Center
Cancer Detection and Prevention
*Cancer Epidemiology, Biomarkers and Prevention**
Cancer Research
Clinical Journal of Oncology Nursing
Epidemiology

European Journal of Cancer Care
International Journal of Cancer
*JAMA Oncology**
JAMA Internal Medicine
Journal of Cancer Epidemiology
Journal of Clinical Epidemiology
Journal of Clinical Oncology
Journal of General Internal Medicine
Journal of the American Board of Family Medicine
Journal of the American Geriatric Society
*Journal of the National Cancer Institute**
Journal of Women's Health
*Medical Care**
Nutrition and Cancer
Pharmacoeconomics & Drug Safety
Preventive Medicine
The Lancet Oncology

Professional Memberships

American Society for Preventive Oncology, 2003 – present
American Association for Cancer Research, 2001 – present
Society for Epidemiological Research, 2007 – present; co-chair of membership committee (2018)
F1000 faculty member, 2010 – present

Grant Reviews

Cancer Research UK - 2018
Susan G Komen Puget Sound– 2013-2014
Patient Centered Outcomes Research Institute– 2013
ITHS Community Pilots, 2010 – 2012

F. BIBLIOGRAPHY

Peer-reviewed research articles

1. Chlebowski RT, **Aiello E**, McTiernan A. Weight Loss in Breast Cancer Patient Management. *Journal of Clinical Oncology* 2002; 20(4): 1128-1143.
2. Irwin ML, Yasui Y, Ulrich CM, Bowen D, Rudolph RE, Schwartz RS, Yukawa M, **Aiello E**, Potter JD, McTiernan A. Effect of exercise on total and intra-abdominal body fat in postmenopausal women: A randomized controlled trial. *JAMA* 2003; 289(3): 323-330.
3. Tworoger SS, Yasui Y, Vitiello MV, Schwartz RS, Ulrich CM, **Aiello EJ**, Irwin ML, Bowen DB, Potter JD, McTiernan A. Effects of a Yearlong Moderate-Intensity Exercise and a Stretching Intervention on Sleep Quality in Postmenopausal Women. *SLEEP* 2003; 26(7): 830-836.
4. Tworoger SS, Chubak J, **Aiello EJ**, Yasui Y, Ulrich CM, Farin F, Potter JD, McTiernan A. Associations between CYP17, CYP19, CYP11B1, and COMT polymorphisms with serum and urinary sex hormones in postmenopausal women. *Cancer, Epidemiology, Biomarkers, & Prevention* 2004; 13(1):94-101.
5. Tworoger SS, Chubak J, **Aiello EJ**, Yasui Y, Ulrich CM, Farin FM, Stapleton PL, Irwin ML, Potter JD, Schwartz RS, McTiernan A. The Effect of CYP19 and COMT Polymorphisms on Exercise-

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- Induced Fat Loss in Postmenopausal Women. *Obesity Research*. 2004 Jun;12(6):972-81
6. **Aiello EJ**, Yasui Y, Tworoger SS, Ulrich CM, Irwin ML, Bowen D, Schwartz RS, Kumai C, Potter JD, McTiernan A. Effect of a yearlong moderate-intensity exercise intervention on the occurrence and severity of menopause symptoms in postmenopausal women. *Menopause: The Journal of the North American Menopause Society* 2004; 11(4):382-388.
 7. Frankenfeld CL, McTiernan A, **Aiello EJ**, Thomas WK, LaCroix K, Schramm J, Schwartz SM, Holt VL, Lampe JW. Mammographic density in relation to daidzein-metabolizing phenotypes in overweight, postmenopausal women. *Cancer Epidemiology, Biomarkers, & Prevention* 2004; 13(7): 1156-1162.
 8. Sparks R, Ulrich CM, Bigler J, Tworoger SS, Yasui Y, Rajan KB, Porter P, Stanczyk FZ, Ballard-Barbash R, Yuan X, Gang Lin M McVarish L, **Aiello EJ**, McTiernan A. UDP-glucuronosyltransferase and sulfotransferase polymorphisms, sex hormone concentrations, and tumor receptor status in breast cancer patients. *Breast Cancer Research* 2004; 6(5):R488-498.
 9. **Aiello EJ**, Buist DSM, White E, Seger D, Taplin SH. Rate of breast cancer diagnoses among post-menopausal women with self-reported breast symptoms. *Journal of the American Board of Family Practice* 2004 Nov-Dec; 17(6):408-415.
 10. **Aiello EJ**, Buist DSM, White E, Porter P. Association between mammographic breast density and breast cancer tumor characteristics. *Cancer Epidemiology, Biomarkers and Prevention* 2005; 14(3): 662-668.
 11. El-Bastawissi A, **Aiello EJ**, Buist DSM, Taplin SH. Previous pregnancy outcome and breast density. *Cancer Causes and Control*. 2005;16(4):407-17.
 12. **Aiello EJ**, Tworoger SS, Yasui Y, Stanczyk F, Potter J, Ulrich CM, Irwin M, McTiernan A. Associations among circulating sex hormones, insulin-like growth factor, lipids, and mammographic density in postmenopausal women. *Cancer Epidemiology, Biomarkers and Prevention* 2005; 14(6):1411-7.
 13. Irwin M, **Aiello EJ**, McTiernan A, Baumgartner RN, Baumgartner KB, Bernstein L, Gilliland FD, Ballard-Barbash R. Pre-diagnosis physical activity and mammographic breast density in pre-and post-menopausal women. *Breast Cancer Research and Treatment* 2006;95(2):171-8.
 14. **Aiello EJ**, Taplin S, Reid R, Hobbs M, Seger D, Kamel H, Tufano J, Ballard-Barbash R. In a randomized controlled trial, patients preferred electronic data collection of breast cancer risk-factor information in a mammography setting. *Journal of Clinical Epidemiology* 2006; 59(1):77-81.
 15. Crest AB, **Aiello EJ***, Anderson ML, Buist DSM. Varying levels of family history of breast cancer in relation to mammographic breast density (United States). *Cancer Causes and Control* 2006; 17:843-850.
 16. **Aiello EJ**, Buist DSM, White E. Do breast cancer risk factors modify the association between hormone therapy and mammographic breast density? (United States). *Cancer Causes and Control*. 2006; 17(10):1227-35.
 17. Buist DSM, **Aiello EJ**, Miglioretti DL, White E. Mammographic breast density, dense area, and breast area differences by phase in the menstrual cycle. *Cancer Epidemiology Biomarkers and Prevention*. 2006; 15(11):2303-6.
 18. Abrahamson PE, Tworoger SS, **Aiello EJ**, Bernstein L, Ulrich CM, Gilliland FD, Stanczyk FZ, Baumgartner R, Baumgartner K, Sorensen B, Ballard-Barbash R, McTiernan A. Associations between the CYP17, CYP1B1, COMT and SHBG polymorphisms and serum sex hormones in post-menopausal breast cancer survivors. *Breast Cancer Res Treat*. 2006; [Epub ahead of print]
 19. Carney PA, Yi J, Abraham LA, Miglioretti DL, **Aiello EJ**, Gerrity MS, Reisch L, Sickles EA, Berns EA, Elmore JG. Reactions to Uncertainty and the Accuracy of Diagnostic Mammography. *J Gen Intern Med*. 2007 Feb;22(2):234-41.
 20. Irwin M, **Aiello EJ**, McTiernan A, Bernstein L, Gilliland FD, Baumgartner RN, Baumgartner KB, Ballard-Barbash R. Physical activity, body mass index, and mammographic density in

- postmenopausal breast cancer survivors. *J Clin Oncol*. 2007 Mar 20;25(9):1061-6. Epub 2007 Jan 29.
21. **Aiello EJ**, Buist DSM, Wagner EH, Tuzzio L, Greene SM, Lamerato L, Field TS, Herrinton LJ, Haque R, Hart G, Bischoff KJ, Geiger AM. Diffusion of Aromatase Inhibitors for Breast Cancer Therapy Between 1996-2003 in the Cancer Research Network. *Breast Cancer Res Treat*. 2007 Mar 28; [Epub ahead of print]
 22. Miglioretti DL, Abraham L, Smith-Bindman R, Carney PA, Osterman LR, Yi JP, **Bowles EJ**, Berns EA, Brenner J, Yankaskas B, Elmore JG. Radiologist characteristics associated with interpretive performance of diagnostic mammography. *JNCI* 2007 Dec 19;99(24):1854-63.
 23. **Aiello Bowles EJ**, Tuzzio L, Wiese C, Kirlin B, Greene SM, Wagner EH. Understanding high-quality cancer care – a summary of expert perspectives. *CANCER* 2008 Feb 15; 112(4):934-42.
 24. Atkinson C, Newton KM, **Bowles EJ**, Yong M, Lampe JW. Demographic, anthropometric, and lifestyle factors and dietary intakes in relation to daidzein-metabolizing phenotypes among premenopausal women in the United States. *The American Journal of Clinical Nutrition* 2008 Mar; 87(3):679-87.
 25. **Aiello Bowles EJ**, Miglioretti DL, Sickles E, Abraham L, Carney P, Yankaskas B, Elmore JG. Accuracy of short-interval follow-up mammograms by patient and radiologist characteristics. *American Journal of Roentgenology*. 2008 May;190(5):1200-8.
 26. Welsh ML, Buist DSM, **Aiello Bowles EJ***, Anderson, ML, Elmore JG, Li, CI. Population-based estimates of the relation between breast cancer risk, tumor subtype, and family history. *Breast Cancer Research and Treatment* 2009 April; 114(3): 549–558. PMC2692346.
 27. Atkinson C, Newton KM, **Aiello Bowles EJ**, Lehman CD, Stanczyk FZ, Westerlind KC, Li L, Lampe JW. Daidzein-metabolizing phenotypes in relation to mammographic breast density among premenopausal women in the United States. *Breast Cancer Research and Treatment*. 2008 Sep 28.
 28. Geller B, **Bowles EJA**, Sohng HY, Brenner JR, Miglioretti DL, Carney PA, Elmore JG. Radiologists' performance and their enjoyment of interpreting screening mammograms. *American Journal of Roentgenology*. 2009 Feb; 192(2)361-9. PMC2824325.
 29. Chubak J, **Bowles EA**, Terry MB, Trentham-Dietz A, Buist DSM. Antidepressant medications and change in mammographic density in postmenopausal women. *Cancer Epidemiol Biomarkers Prev*. 2009 Feb; 18(2):676-9. PMC2640441.
 30. Yong M, Atkinson C, Newton KM, **Aiello Bowles EJ**, Stanczyk FZ, Westerlind KC, Hold VL, Schwartz SM, Leisenring WM, Lampe JW. Associations between endogenous sex hormone levels and mammographic and bone densities in premenopausal women. *Cancer Causes Control*. 2009 Sep; 20(7):1039-53.
 31. McTiernan A, Wang CY, Sorensen B, Xiao L, Buist DSM, **Aiello Bowles EJ**, White E, Rossing MA, Potter J, Urban N. No effect of aspirin on mammographic density in a randomized controlled clinical trial. *Cancer Epidemiol Biomarkers Prev*. 2009 May; 18(5):1524-30. PMC2689709.
 32. **Aiello Bowles EJ**, Geller BM. Best ways to provide feedback to radiologists on mammography performance. *American Journal of Roentgenology*. 2009; 193(1):157-64. PMC2714544.
 33. Abraham L, Geller BM, Yankaskas BC, **Bowles, EJ**, Karliner LS, Taplin SH, Miglioretti DL. Accuracy of self-reported breast cancer among women undergoing mammography. *Breast Cancer Res Treat*. 2009 Mar 20. PMC2784159.
 34. **Aiello Bowles EJ**, Tuzzio L, Ritzwoller DP, Ross T, Wagner EH, Neslund-Dudas C, Altschuler A, Quinn V, Hornbrook M, Nekhlyudov L. Accuracy and complexities of using automated clinical data for capturing chemotherapy administrations: implications for future research. *Medical Care*. 2009 Oct;47(10):1091-7.
 35. Buist DSM, Anderson ML, Reed SD, **Aiello Bowles EJ**, Fitzgibbons ED, Gandara JC, Seger D, Newton KM. Short-term hormone therapy suspension and mammography recall: a randomized

- trial. *Annals of Internal Medicine*. 2009 Jun 2; 150(11): 752-65. PMC2803099.
36. Reed SD, Buist DSM, Anderson ML, **Aiello Bowles EJ**, Fitzgibbons D, Seger D, Newton KM. Short-term (1-2 months) Hormone Therapy Cessation Before Mammography. *Menopause*. 2009 May 15. PMC2783807.
 37. Carney PA, Kettler M, Cook AJ, Geller BM, Karliner L, Miglioretti DL, **Bowles EA**, Buist DS, Gallagher TH, Elmore JG. An Assessment of the Likelihood, Frequency, and Content of Verbal Communication Between Radiologists and Women Receiving Screening and Diagnostic Mammography. *Academic Radiology*. 2009 Sep;16(9):1056-63.
 38. Cook AJ, Elmore JG, Miglioretti DL, Sickles EA, **Bowles EJ**, Cutter GR, Carney PA. Decreased accuracy in interpretation of community-based screening mammography for women with multiple clinical risk factors. *Journal of Clinical Epidemiology* 2010 Apr;63(4):441-51. PMC2837135.
 39. **Bowles EJ**, Sickles EA, Miglioretti DL, Carney PA, Elmore JG. Recommendation for short-interval follow-up examinations after a probably benign assessment: is clinical practice consistent with BI-RADS guidance? *AJR Am J Roentgenol*. 2010 Apr;194(4):1152-9. PMC2861652.
 40. Yong M, Schwartz SM, Atkinson C, Makar KW, Thomas SS, Newton KM, **Aiello Bowles EJ**, Holt VL, Leisenring WM, Lampe JW. Associations between polymorphisms in glucuronidation and sulfation enzymes and mammographic breast density in premenopausal women in the United States. *Cancer Epidemiol Biomarkers Prev*. 2010 Feb;19(2):537-46.
 41. **Aiello Bowles EJ**, Anderson M, Reed S, Newton KM, Fitzgibbons ED, Seger D, Buist DSM. Mammographic breast density and tolerance for short-term postmenopausal hormone therapy cessation. *J Womens Health (Larchmt)*. 2010 Aug;19(8):1467-74.
 42. Elmore JG, **Aiello Bowles EJ**, Geller B, Oster NV, Carney PA, Miglioretti DL, Buist DM, Kerlikowske K, Sickles EA, Onega T, Rosenberg RD, Yankaskas BC. Radiologists' Attitudes and Use of Mammography Audit Reports. *Academic Radiology* 2010 Jun;17(6):752-60.
 43. Phipps AI, Ichikawa L, **Bowles EJ**, Carney PA, Geller BM, Kerlikowske K, Miglioretti DL, Buist DS, for the Breast Cancer Surveillance Consortium. Defining menopausal status in epidemiologic studies: an applied comparison of multiple approaches and their effects on breast cancer rates. *Maturitas*. 2010 Sep;67(1):60-6.
 44. De Roos AJ, Deeg HJ, Onstad L, Kopecky KJ, **Aiello Bowles EJ**, Yong M, Fryzeck J, Davis S. Incidence of Myelodysplastic Syndromes (MDS) within a Non-Profit Health Care System in Western Washington State, 2005-2006. *American Journal of Hematology* 2010 Oct;85(10):765-70.
 45. Onega T, **Aiello Bowles EJ**, Miglioretti DL, Carney PA, Geller BM, Yankaskas BC, Kerlikowske K, Sickles EA, Elmore JG. Radiologists' perceptions of computer aided detection versus double reading for mammography interpretation. *Academic Radiology* 2010;17(10):1217-26.
 46. Wagner WH, **Aiello Bowles EJ**, Greene SM, Tuzzio L, Wiese CJ, Kirlin B, Clauser SB. The quality of cancer patient experience: perspectives of patients, family members, providers, and experts. *Quality and Safety in Health Care* 2010 Dec;19(6):484-9.
 47. Carney PA, Geller BM, Sickles EA, Miglioretti DL, **Aiello Bowles E**, Abraham L, Feig SA, Brown D, Cook A, Yankaskas BC, Elmore JG. Feasibility and Satisfaction Associated with Using a Tailored Web-based Intervention for Recalibrating Radiologists Thresholds for Conducting Additional Work-up. *Academic Radiology* 2011 Mar; 18(3):369-76.
 48. Newton KM, Anderson ML, Reed SD, **Bowles EJA**, Buist DSM. Factors associated with noncompliance with hormone therapy cessation before screening mammography. *Climacteric*. 2011 Apr; 14(2):268-74.
 49. Wernli KJ, **Aiello Bowles EJ**, Haneuse S, Elmore JG, Buist DSM. Timing of follow-up after abnormal screening and diagnostic mammograms. *Am J Managed Care*. 2010 Feb; 17(2):162-7.
 50. Sprague BL, Trentham-Dietz A, Gangnon RE, Buist DSM, Burnside ES, **Aiello Bowles EJ**, Stanczyk FZ, Sisney GS. Circulating sex hormones and mammographic breast density among postmenopausal women. *Hormones and Cancer* 2011 Feb 1; 2(1):62-72.

51. Loo LWM, Wang Y, Flynn EM, Lund MJ, **Aiello Bowles EJ**, Buist DSM, Liff JM, Flagg EW, Coates RJ, Eley JW, Hsu L, Porter PL. Genome-wide copy number alterations in subtypes of invasive breast cancers in young white and African-American women. *Breast Cancer Res Treatment*. 2011 May; 127(1):297-308.
52. Adams SV, Newcomb PA, Shafer MM, Atkinson C, **Bowles EJ**, Newton KM, Lampe JW. Sources of Cadmium Exposure Among Healthy Premenopausal Women. *Science of the Total Environment*. 2011 Apr 1; 409(9):1632-7.
53. Carney PA, **Aiello Bowles EJ**, Sickles EA, Geller BM, Feig SA, Jackson S, Brown D, Cook A, Yankaskas BC, Miglioretti DL, Elmore JG. Using a tailored web-based intervention to set goals to reduce unnecessary recall. *Acad Radiol*. 2011 Apr; 18(4):495-503.
54. Adams SV, Newcomb PA, Shafer MM, Atkinson C, **Bowles EJ**, Newton KM, Lampe JW. Urinary Cadmium and Mammographic Density in Premenopausal Women. *Breast Cancer Res Treatment*. 2011 Aug; 128(3):837-44.
55. Carney PA, Cook AJ, Miglioretti DL, Feig SA, **Bowles EA**, Geller BM, Kerlikowske K, Kettler M, Onega T, Elmore JG. Use of clinical history affects accuracy of interpretive performance of screening mammography. *Journal of Clinical Epidemiology* 2012 Feb; 65(2):219-30.
56. Clauser SB, Wagner EH, **Aiello Bowles EJ**, Tuzzio L, Greene SM. Improving modern cancer care through information technology. *Am J Prev Med* 2011;40(5S2):S198 –S207.
57. Tom SE, Anderson ML, Landis CA, **Bowles EJ**, Woods NF, Reed SD, Newton KM, Buist DS. Sleep problems after short-term hormone therapy suspension: secondary analysis of a randomized trial. *Menopause* 2011, Jul 16.
58. Lowry S, **Aiello Bowles EJ***, Anderson M, Buist DSM. Predictors of breast density change after hormone therapy cessation: results from a randomized trial. *Cancer Epidemiology Biomarkers and Prevention*, 2011 Oct; 20(10):2309-12.
59. Sprague BL, Trentham-Dietz A, Gangnon RE, Buist DS, Burnside ES, **Aiello Bowles EJ** Stanczyk FZ, Sisney GS, Skinner HG. The Vitamin D pathway and mammographic breast density among postmenopausal women. *Breast Cancer Res Treat*. 2012 Jan; 131(1):255-65.
60. Delate T, Witt DM, Ritzwoller D, Weeks JC, Kushi L, Hornbrook MC, **Aiello Bowles EJ**, Schrag D. Outpatient use of low-molecular weight heparin monotherapy for first-line treatment of venous thromboembolism in advanced cancer. *The Oncologist*, 2012;17(3):419-27
61. **Aiello Bowles EJ**, Buist DSM, Chubak J, Yu O, Johnson J, Chestnut J, Boudreau DM. Endocrine therapy initiation from 2001 through 2008 varies by age of breast cancer diagnosis and tumor size. *Journal of Oncology Practice*, 2012, 8(2):113-120.
62. McCahill LE, Single R, **Aiello Bowles EJ**, Feigelson HS, James TA, Barney T, Engel JM, Onitilo AA. Variability in re-excision following breast conservation surgery. *JAMA*, 2012; 307(5):467-475.
63. Buist DSM, Walker R, **Bowles EJ**, Carney PA, Taplin SH, Onega T, Kerlikowske K, Clinton W, Miglioretti DL. Screening mammography use among current, former, and never hormone therapy users may not explain recent declines in breast cancer incidence. *Cancer Epidemiology Biomarkers and Prevention*, 2012 May; 21(5):720-7.
64. Delate T, **Bowles EJ**, Pardee R, Wellman RD, Habel LA, Yood MU, Nekhlyudov L, Goddard KA, Davis RL, McCarty CA, Onitilo AA, Feigelson HS, Freml J, Wagner E. Validity of eight integrated healthcare delivery organizations' administrative clinical data to capture breast cancer chemotherapy exposure. *Cancer Epidemiology Biomarkers and Prevention*, 2012 Apr; 21(4):673-80.
65. Ritzwoller DP, Carroll N, Delate T, O'Keefe-Rossetti M, Fishman PA, Loggers ET, **Aiello Bowles E**, Elston-Lefata J, Hornbrook MC; Validation of Electronic Data on Chemotherapy and Hormone Therapy Use in HMOs. *Medical Care*, 2012 Apr 23. [Epub ahead of print]
66. Reding KW, Atkinson C, Westerlind KC, Stanczyk F, **Aiello Bowles EJ**, Yong M, Newton KM, Lampe JW. Fruit intake associated with urinary estrogen metabolites in healthy premenopausal

- women. *Open Journal of Preventive Medicine*, 2012 Feb 23; 2(1).
67. **Bowles EJA**, Feigelson HS, Barney T, Broecker K, Sterrett A, Bischoff K, Engel J, Gundersen G, Sheehy-Jones J, Single R, Onitilo A, James TA, McCahill LE. Improving Quality of Breast Cancer Surgery Through Development of a National Breast Cancer Surgical Outcomes (BRCASO) Research Database. *BMC Cancer*, 2012 Apr 3; 12(1):136.
 68. Lowry SJ, Loggers ET, **Bowles EJA***, Wagner EH. Evidence gaps in advanced cancer care: community-based clinicians' perspectives and priorities for comparative effectiveness research. *Journal of Oncology Practice*, J Oncol Pract. 2012 May;8(3 Suppl):28s-33s.
 69. **Bowles EJA**, Boudreau DM, Chubak J, Yu O, Fujii M, Chestnut J, Buist DSM. Patient-reported discontinuation of endocrine therapy and related adverse effects among women with early-stage breast cancer. *Journal of Oncology Practice*, Nov 1, 2012: e149-e157
 70. Lowry SJ, Loggers ET, **Bowles EJA***, Wagner EH. Evidence gaps in advanced cancer care: community-based clinicians' perspectives and priorities for comparative effectiveness research. *Journal of Oncology Practice*, Am J Manag Care. 2012; 18(5 Spec No. 2):SP77-83.
 71. **Bowles EJA**, Wellman R, Feigelson HS, Onitilo AA, Freedman AN, Delate T, Allen LA, Nekhlyudov L, Goddard KAB, Davis RL, Habel LA, Yood MU, McCarty C, Magid DJ, Wagner EH. Risk of heart failure in breast cancer patients after anthracycline and trastuzumab treatment: a retrospective cohort study. *JNCI*, 2012 Sep 5; 104(17):1293-305.
 72. Allen LA, Yood MU, Wagner EH, **Aiello Bowles EJ**, Pardee R, Wellman R, Habel L, Nekhlyudov L, Davis RL, Onitilo AA, Magid DJ, for the Pharmacovigilance Research Group. Performance of claims-based algorithms for identifying heart failure and cardiomyopathy among patients diagnosed with breast cancer. *Medical Care*, 2012 May 25 [epub ahead of print].
 73. Romaine MA, **Bowles EJ**, Anderson ML, Buist DS. Comparative effectiveness of mailed reminder letters on mammography screening compliance. *Prev Med*, 2012 Aug;55(2):127-30.
 74. Ritzwoller DP, Carroll N, Delate T, Hornbrook MC, Kushi L, **Aiello Bowles EJ**, Freml JM, Huang K, Loggers ET. Patterns and predictors of first-line chemotherapy use among adults with advanced non-small cell lung cancer in the Cancer Research Network. *Lung Cancer*, 2012 Dec;78(3):245-52
 75. Lowry SJ, Sprague BL, **Aiello Bowles EJ***, Hedman CJ, Hemming J, Hampton JM, Burnside ES, Sisney GA, Buist DS, Trentham-Dietz A. Mammographic breast density and serum phytoestrogen levels. *Nutr Cancer* 2012 Aug; 64(6):783-9.
 76. Goddard KA, **Aiello Bowles EJ**, Spencer Feigelson H, Habel LA, Alford SH, McCarty CA, Nekhlyudov L, Onitilo AA, Rahm AK, Webster JA. Utilization of HER2 genetic testing in a multi-institutional observational study. *Am J Manag Care*. 2012 Nov;18(11):704-12.
 77. Horner K, Ludman E, McCorkle R, Canfield E, Flaherty L, Min J, Miyoshi J, Lapham B, **Bowles EA**, Wagner E.; An oncology nurse navigator program designed to eliminate gaps in early cancer care. *Clin J Oncol Nurs*, 2013 Feb; 17(1):43-8.
 78. Feigelson HS, James TA, Single RM, Onitilo AA, **Aiello Bowles EJ**, Barney T, Bakerman JE, McCahill LE. Factors associated with the frequency of initial total mastectomy: Results of a multi-institutional study. *J Am Coll Surg*, 2013 May; 216(5):966-75.
 79. Sprague BL, Trentham-Dietz A, Hedman CJ, Wang J, Hemming JDC, Hampton JM, Buist DSM, **Bowles EJA**, Sisney GS, Burnside ES. Circulating serum xenoestrogens and mammographic breast density. *Breast Cancer Research*, 2013 May 27; 15(3):R45.
 80. Wirtz HS, Buist DSM, Galow JR, Barlow WE, Gray SL, Chubak J, Yu O, **Bowles EJA**, Fujii M, Boudreau DM. Frequent antibiotic use and second breast cancer events. *Cancer Epidemiol Biomarkers Prev*. 2013 Sep; 22(9):1588-99.
 81. Onitilo AA, Engel JM, James TA, **Aiello Bowles EJ**, McCahill LE, Feigelson HS. Reply to: Should initial mastectomy rates increase? *J Am Coll Surg*. 2013 Nov;217(5):960-2. doi: 10.1016/j.jamcollsurg.2013.07.396. No abstract available.

82. Onitilo AA, Onesti JK, Single RM, Engel JM, James TA, **Aiello Bowles EJ**, Feigelson HS, Barney T, McCahill LE. Utilization of neoadjuvant chemotherapy varies in the treatment of women with invasive breast cancer. *PLoS One*. 2013 Dec 20;8(12):e84535.
83. Wagner EH, Ludman EJ, **Aiello Bowles EJ**, Penfold R, Reid RJ, Rutter CM, Chubak J, McCorkle R. Nurse navigators in early cancer care: A randomized controlled trial. *J Clin Oncol*. 2014 Jan 1;32(1):12-8.
84. Chubak J, **Aiello Bowles EJ**, Tuzzio L, Ludman E, Rutter CM, Reid RJ, Wagner E. Perspectives of cancer survivors on the role of different healthcare providers in an integrated delivery system. *Journal of Cancer Survivorship: Research and Practice*. 2013 Dec 19. Epub ahead of print.
85. Wirtz HS, Boudreau DM, Gralow JR, Barlow WE, Gray SL, **Bowles EJA**, Buist DSM. Factors associated with long-term adherence to surveillance mammography recommendations among breast cancer survivors. *Breast Cancer Res Treat*. 2014 Feb; 143(3):541-50.
86. Delate T, Won K, Carroll NM, Kushi L, Hornbrook M, **Aiello Bowles EJ**, Menter A, Loggers ET, Ritzwoller D. Factors Associated with First-line Bevacizumab Use in Advanced, Non-Squamous, Non-Small Cell Lung Cancer. *J Cancer Research and Therapy*, 2014; 2(1):1-8.
87. Ritzwoller D, Carroll NM, Delate T, Hornbrook M, Kushi L, **Bowles EJ**, Loggers ET, Menter A. Comparative effectiveness of adjunctive bevacizumab for advanced lung cancer: the Cancer Research Network Experience. *Journal of Thoracic Oncology* 2014 May;9(5):692-701.
88. **Bowles EJ**, Wernli KJ, Gray HJ, Bogart A, Delate T, O'Keeffe-Rosetti M, Nekhlyudov L, Loggers ET. Diffusion of Intraperitoneal Chemotherapy in Women with Advanced Ovarian Cancer in Community Settings 2003-2008: The Effect of the NCI Clinical Recommendation. *Front Oncol*. 2014 Mar 10; 4:43. eCollection 2014.
89. Boudreau D, Yu O, Chubak J, Wirtz HS, **Bowles EJ**, Fujii M, Buist DS. Comparative safety of cardiovascular medication use and breast cancer outcomes among women with early stage breast cancer. *Breast Cancer Res Treat*. 2014 Apr; 144(2):405-16.
90. Jones SM, Ludman EJ, McCorkle R, Reid R, **Bowles EJ**, Penfold R, Wagner EH. A differential item function analysis of somatic symptoms of depression in people with cancer. *J Affect Disord*. 2015 Jan 1; 170:131-7.
91. Nyante SJ, Sherman ME, Pfeiffer RM, Berrington de Gonzalez A, Brinton LA, **Aiello Bowles EJ**, Hoover RN, Glass A, Gierach GL. Prognostic significance of mammographic density change after initiation of tamoxifen therapy for ER-positive breast cancer. *J Natl Cancer Inst*. 2015 Feb 6; 107(3).
92. Gard CC, **Aiello Bowles EJ**, Miglioretti DL, Taplin SH, Rutter CM. Misclassification of breast imaging reporting and data system (BI-RADS) mammographic density and implications for breast density reporting legislation. *The Breast Journal*. 2015 Sep-Oct; 21 (5):481-9.
93. Gao H, **Aiello Bowles EJ***, Carrell DS, Buist DS. Using natural language processing to extract mammographic findings. *J Biomedical Informatics*. 2015 Apr; 54:77-84.
94. Wieneke AE, **Bowles EJA***, Cronkite D, Wernli KJ, Gao H, Carrell D, Buist DSM. Validation of natural language processing to extract breast cancer pathology procedures and results. *J Pathol Inform*. 2015 June 23;6:38.
95. Carroll NM, Delate T, Menter A, Hornbrook MC, Kushi L, **Aiello Bowles EJ**, Loggers ET, Ritzwoller DP. Use of bevacizumab in community settings: Toxicity profile and risk of hospitalization in patients with advanced non-small-cell lung cancer. *J Oncol Pract*. 2015 Sep; 11(5):356-62.
96. Ludman EJ, McCorkle R, **Bowles EA**, Rutter CM, Chubak J, Tuzzio L, Jones S, Reid RJ, Penfold R, Wagner EH. Do depressed newly diagnosed cancer patients differentially benefit from nurse navigation? *Gen Hosp Psychiatry*. 2015 May-Jun; 37(3):236-9.

97. **Aiello Bowles EJ**, Larson EB, Pong RP, Walker RL, Anderson ML, Yu O, Gray SL, Crane PK, Dublin S. Anesthesia exposure and risk of dementia and Alzheimer's disease: a prospective study. *Journal of the American Geriatrics Society*. 2016 Mar; 64(3):602-7.
 98. Nyante SJ, Sherman ME, Pfeiffer RM, Berrington de Gonzalez A, Brinton LA, **Aiello Bowles EJ**, Hoover RN, Glass A, Gierach GL. Longitudinal change in mammographic density among ER-positive breast cancer patients using tamoxifen. *CEBP* 2016 Jan;25(1):212-6.
 99. Chubak J, **Bowles EJ**, Yu O, Buist DS, Fujii M, Boudreau DM. Breast cancer recurrence in relation to antidepressant use. *Cancer Causes Control*. 2016 Jan;27(1):125-36.
 100. Nichols HB, **Bowles EJA**, Islam J, Madziwa L, Sturmer T, Tran D-T, Buist DSM. Tamoxifen initiation after ductal carcinoma in situ. *The Oncologist* 2016 Feb; 21(2):134-40.
 101. Mullooly M, Pfeiffer RM, Nyante SJ, Heckman-Stoddard BM, Perloff M, Jatoi I, Brinton LA, **Aiello Bowles EJ**, Hoover RN, Glass A, Berrington de Gonzalez A, Sherman ME, Gierach GL. Mammographic density as a biosensor of tamoxifen effectiveness in adjuvant endocrine treatment of breast cancer: opportunities and implications. *JCO*. 2016 Mar 28. [Epub ahead of print]
 102. **Bowles EJ**, Gao H, Brandzel S, Bradford SC, Buist DS. Comparative effectiveness of two outreach strategies for cervical cancer screening. *Prev Med*. 2016 May; 86:19-27.
 103. Brandzel S, Chang E, Tuzzio L, Campbell C, Coronado N, **Bowles EJ**, Bradford SC, Buist DS. Latina and Black/African American women's perspectives on cancer screening and cancer screening reminders. *J Racial Ethn Health Disparities*. 2016 Nov 18 [Epub ahead of print]
 104. Buist DSM, Gao H, Anderson ML, Onega T, Brandzel S, Rabelhofer RA, Bradford SC, **Aiello Bowles EJ**. Breast cancer screening outreach effectiveness: mammogram-specific reminders vs comprehensive preventive services birthday letters. *Prev Med*. 2017 Sep;102:49-58
 105. Lin JS, **Aiello Bowles EJ**, Williams SB, Morrison CC. Screening for thyroid cancer: updated evidence report and systematic review for the US Preventive Services Task Force. *JAMA* 2017 May 9;317(18):1888-1903.
 106. **Aiello Bowles EJ**, Walker RL, Anderson ML, Dublin S, Crane PK, Larson EB. Risk of Alzheimer's disease following a cancer diagnosis. *PLoS One*. 2017 Jun 20;12(6):e0179857
 107. Gray SL, Walker R, Dublin S, Yu O, **Aiello Bowles EJ**, Anderson ML, Crane PK, Larson EB. Proton pump inhibitor use and dementia risk. *J Am Geriatr Soc* 2018 Feb; 66(2):247-253.
 108. Brandzel SD, **Aiello Bowles EJ**, Wieneke A, Bradford SC, Kimbel K, Goa H, Buist DSM. Cancer screening reminders: addressing the spectrum of patient preferences. *Perm J*. 2017; 21:17-051.
 109. Brentnall AR, Cuzick J, Buist DSM, **Aiello Bowles EJ**. Long-term accuracy of breast cancer risk assessment combining classical factors and breast density: a cohort study. *JAMA Oncology* 2018 Sep; 4(9):e180174.
 110. Chubak J, Yu O, Ziebell RA, **Bowles EJ**, Sterrett AT, Fujii MM, Boggs JM, Burnett-Hartman AN, Boudreau DM, Chen L, Floyd JS, Ritzwoller DP, and Hubbard RA. Risk of colon cancer recurrence in relation to diabetes. Accepted (9/17/2018): *Cancer Causes & Control*.
 111. Sprague BL, Kerlikowske K, **Bowles EJA**, Rauscher GH, Lee CI, Tosteson ANA, Miglioretti DL. Trends in clinical breast density assessment from the Breast Cancer Surveillance Consortium. *Journal of the National Cancer Institute* (In press).
 112. Knerr S, **Bowles EJA**, Leppig KA, Buist DSM, Gao H, Wernli KJ. Trends in BRCA test utilization in an integrated health system, 2005-2015. *Journal of the National Cancer Institute* (In press).
- *Primary mentor of first listed author

Peer-reviewed published abstracts

1. Irwin ML, **Aiello E**, Gilliland F, McTiernan A, Baumgartner R, Bernstein L, Ballard-Barbash R. The Association between Physical Activity Levels and Mammographic Breast Density in pre- and post-

- menopausal women: The Health, Eating, Activity, and Lifestyle (HEAL) Study. *Cancer Epidemiology, Biomarkers and Prevention* 2003; 12(11):1284s-1285s.
2. **Aiello E**, Taplin S, Reid R, Paschall M, Seger D, Kamel H, Tufano J, Ballard-Barbash R. Electronic Data Collection from Patients on Breast Cancer Risk Factor Information in a Mammography Setting. *The American Journal of Managed Care* 2004; 10(9):651.
 3. **Aiello EJ**, Buist DS, White E. Association between breast density and hormone therapy modified by breast cancer risk factors. *Cancer Epidemiology, Biomarkers and Prevention* 2004; 13(11):1972s-1928s.
 4. Welsh ML, **Aiello EJ**, Anderson ML, Buist DSM. Population-based estimates of the relation between family history and breast cancer risk. *American Journal of Epidemiology* 2007; 165(11):Abstract 227-S.
 5. Sprague B, Trentham-Dietz A, Heman C, Hemming J, Hampton J, Buist D, **Bowles EA**, Burnside E, Sisney G. The association of serum phthalates and parabens with mammographic breast density. *Cancer Epidemiol Biomarkers Prev.* 2011 Apr;20(4):718.

Book chapters:

1. "Breast Imaging." Ed. Lee CI, Lehman CD, Bassett LW. *Breast Cancer Screening: Evidence and Recommendations.* Karen J Wernli and Erin J Bowles. New York: Oxford University Press 2018. 14-17. Print.

Non peer-reviewed publications

1. Stern S and **Aiello E**. Success of Environmental Laws Hinges on Public Perception. *The Los Angeles Times.* Oct 22, 2000.

G. FUNDING HISTORY

Ongoing Research Support

National Cancer Institute	R37CA222793 (Kantor)	1/1/2018 – 12/31/2022
Obesity, Chemotherapy Dosing, and Breast Cancer Outcomes		
Role: Site PI/Co-Investigator		
National Cancer Institute	R50CA211115 (Bowles)	2/1/2017-1/31/2022
Group Health Cancer Research Program Research Specialist Award		
Role: Principal Investigator		
National Cancer Institute	2P01CA154292 (Miglioretti)	7/1/2017-5/31/2022
Risk-based Breast Cancer Screening and Surveillance in Community Practice		
Role: Site PI/Co-investigator		
AHRQ	HHSA-290-2015-000071 (Lin)	9/11/2017-6/30/2019
Evidence Based Practice Center – Screening for Pancreatic Cancer Review		
Role: Co-Investigator		
National Institute on Aging	U01 AG006781 (Larson)	5/1/2015-4/30/2020
Alzheimer's Disease Patient Registry (ADPR/ACT)		
Role: Co-Investigator		
National Institute on Aging	R13AG057087 (Larson)	5/12/2017-4/30/2020
The ACT Annual Symposium: A Living, Learning National Collaboratory to Advance Alzheimer's Disease and Brain Aging Research		
Role: Site PI/Co-Investigator		
National Cancer Institute	R01CA185687 (Smith-Bindman)	3/1/2015-2/29/2020

Risk of Pediatric and Adolescent Cancer Associated with Medical Imaging (RIC)
Role: Site PI/Co-Investigator

National Cancer Institute R01CA190221 (O'Neill) 8/7/2015-7/31/2019
Applying Breast Density to Risk Counseling (ENGAGED II)
Role: Co-Investigator

National Cancer Institute HHSN261201700695P (Bowles) 9/20/2017-3/18/2019
Mammographic Breast Density and Contralateral Breast Cancer Risk: Digitization and Assessment of
Mammograms from Kaiser Colorado (KPCO Density)
Role: Principal Investigator

Completed Research Support

National Cancer Institute HHSN261201700564P (Buist) 9/11/2017-9/10/2018
Risk of New Malignancies Following Breast Cancer (Kaiser Breast Cancer Survivor Cohort)
Role: Co-Investigator

National Cancer Institute R01CA172073 (Chubak) 9/13/2013-7/31/2018
Commonly Used Medications and Risk of Colorectal Cancer Recurrence (RECORD)
Role: Co-Investigator

National Cancer Institute 1P01CA154292 (Miglioretti) 9/13/2011-8/31/2017
Risk-based Breast Cancer Screening in Community Settings
Role: Co-investigator

AHRQ HHS-290-2012-00151-I (Lin) 3/1/2013-8/31/2017
Evidence Based Practice Center
Role: Research Associate

National Cancer Institute/Westat 6182-S13-Mod 1 5/11/2015-8/31/2016
Lobular Duct Involution and Breast Density
Role: Principal Investigator

National Cancer Institute HHSN261201100031C (O'Meara) 8/1/2011-7/31/2016
Breast Cancer Surveillance Consortium Research Resource
Role: Associate Director

Branta Foundation None (Dublin) 8/1/2012-7/31/2015
Medication Exposure and Cognitive Decline in Older People
Role: Research Associate

National Cancer Institute 1P20CA137219 (Dearing) 9/30/2008-8/31/2014
CRN Clinical Communication Research Center: Testing an Optimal Model of Patient-Centered Cancer
Care
Role: Research Associate

American Cancer Society RSGI-I 00-01-CPHPS (Buist) 7/1/2011-6/30/2014
Effectiveness of Health Care System Outreach for Breast Cancer Screening
Role: Co-investigator

National Cancer Institute HHSN261201100441P (Bowles) 9/1/2011-3/1/2013
Kaiser Tamoxifen and Mammographic Density Study
Role: GH Principal Investigator

National Cancer Institute 1R01CA120562 (Boudreau) 9/1/2007-7/31/2012
Commonly Used Medications and Breast Cancer Recurrence

Role: Research Associate

National Cancer Institute 5U19CA079689 (Wagner) 5/1/2007-4/30/2012
Cancer Research Network Across Health Care Systems: CRN3 – Infrastructure
Role: Research Associate

National Cancer Institute 1RC2CA148185 (Weeks) 9/30/2009-8/31/2011
Building CER Capacity: Aligning CRN, CMS, and State Resources to Map Cancer Care
Role: Co-investigator

National Cancer Institute 2U01CA063731 (Buist) 8/1/2005 – 7/31/2010
Breast Cancer Surveillance in a Defined Population
Role: Research Associate

National Cancer Institute 1RC1CA145402 (McCahill) 10/1/2009-9/30/2011
Improving breast cancer surgery quality through a collaborative surgery database
Role: GH Principal Investigator

National Cancer Institute 5R01CA107623 (Elmore) 7/1/2004 – 4/30/2010
Understanding Variability in Community Mammography
Role: Research Associate

National Cancer Institute 5R01CA098415 (Porter) 6/1/2004-5/31/2010
Gene Copy Number Chances and Breast Cancer Survival
Role: Research Associate

AMGEN None (De Roos) 12/11/2006-4/30/2009
Descriptive Epidemiology and Clinical Course of Myelodysplastic Syndromes (MDS) in a Health
Maintenance Organization
Role: GH Principal Investigator

National Institutes of Health HHSN261200700389P (Bowles) 9/12/2007-12/30/2007
Radiologist Feedback Reports
Role: GH Principal Investigator

National Cancer Institute Contract-None (Wagner) 10/1/2005-1/31/2007
Patient Centered Communication in Cancer Care
Role: Research Associate

Department of Defense DAMD17-03-1-0447 (Buist) 6/1/2003 – 6/30/2008
A Population-Based Randomized Trial to Assess the Effects of Short-Term Cessation of HRT on
Mammography Assessments and Breast Density
Role: Research Associate

H. CONFERENCES AND SYMPOSIUMS

Contributed Oral Presentations

1. "Duration and Type of Symptoms at the Time of a Mammogram". Breast Cancer Surveillance Consortium Meeting, Sugarbush, VT. October 2002.
2. "Group Health Cooperative Survey Automation Project". National Cancer Institute. February 2003.
3. "Developing automated alternatives for eliciting patient information for breast cancer screening surveillance". Breast Cancer Surveillance Consortium meeting, Portsmouth, NH. April 2003.
4. "Rate of breast cancer diagnoses among women with self-reported breast symptoms". Breast Cancer Surveillance Consortium meeting, Portsmouth, NH. April 2003.

5. "Use of Tablet PCs to Automate the Breast Screening Recruitment and Reminders (BSRR) Survey". Breast Cancer Surveillance Consortium meeting, Lake Tahoe, CA. October 2003.
6. "Censoring and cancer incidence: methodology". Breast Cancer Surveillance Consortium meeting, Vancouver, BC, Canada. April 2005.
7. "Comparison of ACR and BCSC definitions for screening and diagnostic mammograms." Breast Cancer Surveillance Consortium meeting, Vancouver, BC, Canada. April 2005.
8. "Mammographic density and phase in the menstrual cycle." Group Health Cooperative, Breast Cancer Surveillance Scientific meeting, March 2005; and Breast Cancer Surveillance Consortium meeting, Vancouver, BC, Canada. April 2005.
9. "Radiologist feedback project". Breast Cancer Surveillance Consortium Meeting, Seattle, WA. April 2008.
10. "The trustworthiness of administrative health plan data in chemotherapy research". HMO Research Network Meeting, Minneapolis, MN. April 2008.
11. "Chemotherapy associated with increased heart failure risk among women with breast cancer in the CRN." HMO Research Network meeting in Boston, MA, 2011.
12. "Anesthesia exposure and risk of dementia and Alzheimer's disease: a prospective study." HCSRN meeting, Atlanta, GA. April 2016.
13. Atakpa E, Cuzick J, Buist D, **Bowles E**, Brentnall A. Longitudinal modelling of mammographic density for accurate breast cancer risk estimation. 5th Biennial "Why Study Mammographic Density?" Conference, Melbourne, VIC, Australia, October 2018.
14. Gierach GL, Fan S, **Bowles EA**, Duggan M, Pfeiffer R, Sherman M, Sternberg L, Kimes T, Ginsberg M, Mullooly M, Reichert-Boe K, Glass AG, Figueroa JD, Rohan T. Association between mammographic breast density and breast cancer risk among a cohort of patients with benign breast disease. 5th Biennial "Why Study Mammographic Density?" Conference, Melbourne, VIC, Australia, October 2018.
15. Henrikson NB, **Bowles EJA**, Blasi PR, Morrison CC, Nguyen M, Lin JS. Screening for Pancreatic Cancer: A Systematic Evidence Review for the U.S. Preventive Services Task Force. USPSTF Meeting, 2018 July 20; Rockville, MD.

Seminars/Meeting Presentations

1. "The rate of breast cancer diagnoses among women with self-reported breast symptoms". Group Health Research Institute* Scientific Surveillance meeting. January 2003.
2. "Automated Survey". Group Health Research Institute Scientific Surveillance meeting. January 2003.
3. "Use of Tablet PCs to Automate the Breast Screening Recruitment and Reminders (BSRR) Survey". Group Health Research Institute Programmers meeting. May 2003. "What can you do with science?" Brier Elementary School science fair. June 2003.
5. "Developing automated alternatives for eliciting patient information for breast cancer screening surveillance". Group Health Research Institute staff meeting, August 2003.
6. "Development of an automated alternative for eliciting patient information for breast cancer screening surveillance". Group Health, Breast Cancer Roadmap meeting, January 2004.
7. "Patient acceptability of an electronic survey for eliciting patient information for breast cancer screening surveillance". Group Health Research Institute Surveillance Scientific meeting, February 2004.
8. "Automated data collection in a mammography setting". Group Health Research Institute Cancer researchers meeting, July 2004.
9. "Association between hormone therapy and breast density modified by breast cancer risk factors. Group Health Research Institute* Programmers meeting, October 2004.
10. "Association between hormone therapy and breast density modified by breast cancer risk factors.

- Group Health Research Institute* Surveillance Scientific Meeting, October 2004.
11. "Rate of breast cancer diagnoses in postmenopausal women with self-reported breast symptoms." Group Health Cooperative, Breast Cancer Roadmap meeting, January 2005.
 12. "Medication use and breast cancer prognosis grant preparation: methodological issues." Group Health, Breast Cancer Surveillance Scientific meeting, March 2005.
 13. "Racial disparities P01." Group Health, Cancer Researchers Meeting. December 2005.
 14. "SEER linkage project". Group Health, Cancer Researchers Meeting, June 2006.
 15. "Time in the diagnostic process – monitoring quality of breast care at Group Health". Group Health, Breast Cancer Surveillance Scientific meeting, September 2006.
 16. "SEER data capture – how complete is Group Health's capture of breast cancers from SEER data". Group Health, Breast Cancer Surveillance Scientific meeting, December 2006.
 17. "Tumor marker MicA in Study 1A". Group Health, Breast Cancer Surveillance Scientific meeting, December 2006.
 18. "The quality of cancer care from the perspective of patients, family members, and providers". Group Health All Staff meeting, April 2007.
 19. "Group Health – SEER data capture". Group Health Cancer Researchers Meeting, April, 2007.
 20. "Bra size and breast cancer stage". Group Health, Breast Cancer Surveillance Scientific meeting, September 2007.
 21. "Patient-centered communication in cancer care: different perspectives on the quality of cancer care". Group Health, Group Health Research Institute seminar, July 2008.
 22. "Recommendation for short-interval follow-up exams after a probably benign assessment – is clinical practice consistent with BI-RADS guidance?" FAVOR meeting, January 2009.
 23. "Building a Population Laboratory for Pharmacoepidemiologic and Pharmacogenomic Studies in Cancer: Cardiotoxicity following Systemic Therapy for Breast Cancer". Pharmacoepidemiology interest group meeting, November 2009.
 24. "COMBO: Uptake of tamoxifen and aromatase inhibitors in a cohort of breast cancer patients". Pharmacoepidemiology interest group meeting, July 2010.
 25. "Anesthesia and dementia risk", ACT Symposium, August 4, 2014.
 26. "Use of natural language processing in breast cancer research", CHASE WIP, January 26, 2015.
 27. "Cancer and subsequent dementia risk", ACT Symposium, August 17, 2015.
 28. "How do we measure resilience to brain aging, dementia, and Alzheimer's disease?" ACT Symposium, Seattle, WA August 2017.
 29. "ACT Data Query Tool." ACT Symposium, Seattle, WA August 2017.

Selected poster presentations

1. **Aiello EJ**, Tworoger SS, Ulrich CM, Rajan K, Fay M, McTiernan A. Little Association Between CYP17, CYP1B1, or COMT Polymorphisms and Steroid Sex Hormones in Post-Menopausal Breast Cancer Patients. 2002 Proceedings of the American Association for Cancer Research April 6-10, 2002 San Francisco, CA.
2. Palomares MR, **Aiello E**, Lehman CD, Gralow JR, McTiernan A. Mammographic breast density as a noninvasive surrogate marker of breast cancer risk modification: A comparison of density assessment methods. 2003 Proceedings of the American Association for Cancer Research April 5-9, 2003 Toronto, Ontario, Canada.
3. **Aiello E**, Taplin S, Reid R, Paschall M, Seger D, Kamel H, Tufano J, Ballard-Barbash R. Electronic Data Collection from Patients on Breast Cancer Risk Factor Information in a Mammography Setting. HMO Research Network meeting, Dearborn, MI, May 3-5, 2004.

4. **Aiello EJ**, Buist DSM, White E. Association between hormone therapy and breast density modified by breast cancer risk factors. American Association for Cancer Research: Frontiers in Cancer Prevention Research meeting, Seattle, WA, Oct. 16-19, 2004.
5. Crest AB, **Aiello EJ**, Anderson ML, Buist DSM. Varying levels of family history of breast cancer in relation to mammographic breast density. American Society of Preventive Oncology Annual Meeting, March 13-15, 2005, San Francisco, CA. (Poster presentation; 3rd place award).
6. Buist DSM, Newton KM, Reed S, Anderson ML, **Aiello EJ**, Palmer L, Seger D. Can short-term hormone therapy (HT) cessation before mammography decrease breast density and improve mammography performance? A randomized trial – the READ study. Era of Hope 2005 – Department of Defense Breast Cancer Research Program meeting. June 8-11, 2005, Philadelphia, PA.
7. Buist DSM, **Aiello EJ**, Miglioretti DL, Mahoney L, White E. Mammographic breast density, dense area, and breast area by phase in the menstrual cycle. San Antonio Breast Cancer Symposium, December 8-11, 2005, San Antonio, TX.
8. **Aiello EJ**, Geiger AM, Pardee R, Buist DSM, Hart G, Greene SM, Lamerato L, Field T, Wagner E. Diffusion of Aromatase Inhibitors for Breast Cancer. American Society of Preventive Oncology Annual Meeting, February 27-28, 2006, Bethesda, MD. (Poster presentation, 1st place award).
9. **Aiello EJ**, Geiger AM, Pardee R, Buist DSM, Hart G, Greene SM, Lamerato L, Field T, Wagner E. Diffusion of Aromatase Inhibitors for Breast Cancer. International Society of Pharmacoepidemiology meeting, August 24-26, 2006, Lisbon, Portugal.
10. **Aiello EJ**, Buist, DSM, Haneuse S, Elmore, JG. Reducing Delays in Diagnosis – Characteristics of Women with Timely Follow-up after and Abnormal Mammogram. American Society of Preventive Oncology Annual Meeting, March 1-4, 2007, Houston, TX; and HMO Research Network meeting, Portland, OR, March 19-21, 2007.
11. Buist DSM, **Aiello EJ**, Haneuse S, Elmore JG. Falling through the Cracks – Characteristics of Women without Follow-up after an Abnormal Mammogram. American Society of Preventive Oncology Annual Meeting, March 1-4, 2007, Houston, TX; and HMO Research Network meeting, Portland, OR, March 19-21, 2007.
12. **Aiello EJ**, Tuzzio L, Wiese C, Kirlin B, Greene SM, Wagner EH. Developing a Model for High Quality Cancer Care – Results from Expert Interviews. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
13. **Aiello EJ**, Tuzzio L, Wiese C, Kirlin B, Greene SM, Wagner EH. Developing a Model for High Quality Cancer Care – Results from Community Focus Groups. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
14. Greene SM, Kirlin B, Tuzzio L, **Aiello EJ**, Wagner EH. Developing a Model for High Quality Cancer Care – Results from a Literature Review. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
15. Tuzzio L, Kirlin B, **Aiello EJ**, Greene SM, Wagner EH. Developing a Model for High Quality Cancer Care – Results from Visiting Organizations in Three Communities. HMO Research Network meeting, Portland, OR, March 19-21, 2007.
16. Tuzzio L, **Aiello Bowles EJ**, Altschuler A, Williams AE, Ritzwoller DP, Nekhlyudov L. The Feasibility of a Feasibility Study: Using the VDW to Assess the Diffusion of Ovarian Cancer Treatment. HMO Research Network meeting, Minneapolis, MN, April 13-16, 2008.
17. **Aiello Bowles EJ**, Anderson ML, Reed SD, Newton KM, Fitzgibbons ED, Seger D, Buist DSM. Tolerance for short-term hormone therapy suspension related to mammographic breast density among postmenopausal women. Presented at ASPO, Tampa, FL, March 9-10, 2009.
18. Reed SD, Buist DSM, Anderson ML, **Aiello Bowles EJ**, Fitzgibbons D, Seger D, Newton KM. Short-term (1-2 months) hormone therapy cessation before mammography. Presented at ASPO, Tampa, FL, March 9-10, 2009.

19. Sprague BL, Trentham-Dietz A, Skinner HG, Buist DSM, Burnside ES, **Aiello Bowles EJ**, Gangnon RE, Sisney GS. The vitamin D pathway and mammographic breast density. Presented at ASPO, Washington DC, March 21-23, 2010.
20. Horner K, Wagner E, **Aiello Bowles E**, Kirlin B, Tuzzio L. The benefits of stakeholder involvement in research: experiences from our oncology nurse navigator clinical trial. Presented at HMORN, Austin, TX, March 21-24, 2010.
21. Feigelson HS, Bischoff K, Broecker K, **Bowles EA**, Engel J, James TA, Onitilo A, Single RM, McCahill L. Improving breast cancer surgery quality through a collaborative surgical database. Presented at HMORN, Austin, TX, March 21-24, 2010.
22. Sprague BL, Trentham-Dietz A, Gangnon RE, Buist DSM, Burnside ES, **Aiello Bowles EJ**, Sisney GS. Circulating sex hormones and mammographic breast density. Presented at SER, Seattle, WA, June 23-26, 2010.
23. Romaine MA, Buist DSM, **Aiello Bowles EJ**, Anderson ML. Comparative effectiveness of reminder letters for mammography. Presented at Academy Health, Boston, MA June 27-29, 2010.
24. **Bowles EJA**, Buist DSM, Chubak J, Yu O, Boudreau DM. Uptake of tamoxifen and aromatase inhibitors in women with early stage, invasive breast cancer in a community setting, 2001-2008. Presented at American Society of Preventive Oncology annual meeting, Las Vegas, NV, March 5-8, 2011.
25. Buist DSM, **Aiello Bowles EJ**, Gao H, Brandzel S, Romaine MA, Anderson ML, Rutter C. Transition from mammogram-specific reminders to annual birthday letters for breast cancer prevention. Presented at International Cancer Screening Network Meeting, Sydney, Australia, October 23-25 2012.
26. Nyante SJ, Sherman ME, Pfeiffer RM, Berrington A, Brinton LA, **Aiello Bowles E**, Hoover RN, Glass A, Gierach GL. Patterns of longitudinal change in mammographic density among tamoxifen users. Presented at American Association of Cancer Research Frontiers in Cancer Prevention meeting, National Harbor, MD, October 27-30, 2013
27. Brandzel S, **Bowles E**, Gao H, Wieneke A, Kimbel K, Bradford SC, Buist D. Improving response to cancer screening reminders: one size does not fit all. Presented at Academy Health annual meeting, San Diego, CA, June 8-10, 2014.
28. Larson EB, Crane PK, **Bowles EJ**, Walker R, Anderson ML, White D, Richmire K, LaCroix A, McCurry SM, Teri L, Mukherjee S, Montine TJ. The Group-Health University of Washington Adult Changes in Thought study: A living, learning laboratory for aging and multiple chronic conditions research. HMORN meeting, Long Beach, CA, March 11-13, 2015.
29. **Aiello Bowles EJ**, Larson EB, Pong RP, Walker RL, Anderson M, Yu O, Gray SL, Crane PK, Dublin S. Anesthesia exposure and risk of dementia and Alzheimer's disease: a prospective study. International Conference on Pharmacoepidemiology & Therapeutic Risk Management. Boston, MA. August 22-26, 2015.
30. Larson EB, **Bowles EJ**, Crane PK, Walker R, Anderson ML, White D, Richmire K, LaCroix A, McCurry SM, Teri L, Mukherjee S, Montine TJ. News from the Adult Changes in Thought (ACT) study: A long standing living laboratory of aging funded for five more years. HCSRN meeting, Atlanta, GA, April 13-16, 2016.
31. Marlow EC, Langholz B, Smith-Bindman R, Kwan ML, **Bowles EJ**, Weinmann S, Miglioretti DL. Evaluating Down Syndrome as a potential confounder for pediatric CT exam exposure and leukemia risk. Radiation Research Society and Conference on Radiation and Health meeting, Hawaii, October 2016.
32. D Miglioretti¹, M Kwan, S Weinmann, **E Bowles**, W Bolch, J Duncan, L Kushi, L Yueju, E Marlow, K Theis, K Deosaransingh, M Francisco, J DeVault, M Lakoma, C Manney, J Mor, C Wong, C Jenkins, K Kumar⁹, C Luce, D Multerer, J Munneke, A Uchida, M Troup, R Greenlee, J Pole, A Rahm, N Stout, R Smith-Bindman. Current exposure to computed tomography imaging in US

- integrated health care systems. Radiation Research Society and Conference on Radiation and Health meeting, Hawaii, October 2016.
33. **Aiello Bowles EJ**, Walker RL, Anderson ML, Dublin S, Crane PK, Larson EB. Risk of Alzheimer's disease following a cancer diagnosis. Alzheimer's Association International Conference, London, July 2017.
 34. **Aiello Bowles EJ**, Walker RL, Crane PK, Keene CD, Chubak J, Anderson ML, LaCroix AZ, Larson EB. How do we measure resilience to brain aging, dementia, and Alzheimer's disease? Alzheimer's Association International Conference, London, July 2017.
 35. Bradford SC, **Bowles E**. Less is More: Results of a HOS Improvement Study. National Quality Conference, Anaheim, CA June 2017.
 36. Brentnall AR, Cuzick J, Buist DSM, **Bowles E**. Evaluation of the Tyrer-Cuzick model of breast cancer risk with BIRADS density in a screening cohort from Washington state. 8th annual Breast Density and Cancer Risk Assessment workshop, San Francisco, CA June 2017.
 37. **Bowles EJ**, Yu O, Ziebell R, Chen L, Boudreau D, Ritzwoller DP, Hubbard R, Boggs J, Burnett-Hartman A, Sterrett A, Fujii M, Chubak J. Cardiovascular medication use and risks of colon cancer recurrences and second cancers. American Society for Preventive Oncology, New York, NY, March 2018; and Kaiser Permanente National Oncology Symposium, San Francisco, CA, April 2018.
 38. Wernli KJ, **Bowles EA**, Evans C, Gao H, Hansen K, Knerr S, Leppig K, Schwartz MD, O'Neill S. Patient characteristics associated with participation in a web-based decision support trial for women at increased breast cancer risk: ENGAGED 2 trial. American Society for Preventive Oncology, New York, NY, March 2018

I. PROFESSIONALLY RELATED COMMUNITY SERVICE

Co-organized Epi 101, Kaiser Permanente Washington Health Research Institute, 2018-2019
 VP/Executive Director academic search committee, Kaiser Permanente Washington Health Research Institute, 2018-2019
 Membership Committee, Society for Epidemiologic Research, 2017-present (co-chair 2018-present)
 Cancer Researchers Group Lead, Kaiser Permanente Washington Health Research Institute, 2017-present
 Breast Cancer Screening Guidelines Implementation Committee, Kaiser Permanente Washington, 2017
 Programmer Supervisor Hiring Committee, Group Health Research Institute, 2015-16
 Lake Washington Institute of Technology, Bachelor's in Public Health Advisory Board – 2013-2017
 Partnership for Innovation committee, Group Health Research Institute, 2010-2014
 Chair Cancer Researchers Group, Group Health Research Institute, 2010-2013
 Produce Group Health Radiology Report for mammographers, Group Health, 2003-2013
 Promotions review committee for Clarissa Hsu, Group Health Research Institute, 2011
 LDT advisory committee, Group Health Research Institute, 2010
 Faculty advisor group to Survey, Group Health Research Institute, 2009
 Faculty Development working group, Group Health Research Institute, 2009
 Faculty Review working group, Group Health Research Institute, 2009
 Strategic Direction Setting Committee, Group Health Research Institute, 2008-2009.
 Scientific Policy Committee, Group Health Research Institute, 2007-2010. (Chair, 2008-2009)
 Research Implementation Committee, Breast Cancer Surveillance Consortium, 2007-2008.
 Menopause working group, Breast Cancer Surveillance Consortium, 2006-2009.
 Junior Investigator Session Planning Committee, American Society of Preventive Oncology, 2006-2008
 Chaired working group to revise Breast Cancer Screening Program Survey, Group Health, 2006
 Pathology working group, Breast Cancer Surveillance Consortium, 2005-2009

Faculty retreat planning committee, Group Health Research Institute, 2005
Chaired working group to revise Breast Cancer Screening Program Survey, Group Health, 2004

J. TEACHING HISTORY

Instructor, Epidemiology 101, Group Health Research Institute, 2015.
Guest lecturer, Lake Washington Institute of Technology, "Practical and real-life examples of epidemiology", June 9, 2015
Guest lecturer, University of Washington MEDEX Physician Assistants training program, "Randomized Clinical Trials", June 26, 2013
Guest lecturer, University of Washington MEDEX Physician Assistants training program, "Randomized Clinical Trials", June 28, 2012
Instructor, Epidemiology 101, Group Health Research Institute, 2007.
Teaching Assistant, Environmental Health and Quality class, University of California, Irvine, 2000.

K. ADVISING AND FORMAL MENTORING

Mentor, Arika Wieneke, Bachelor's Student, Whitman College, 2013-2014.
Mentor, Sarah Lowry, PhD Candidate, University of Washington,, 2010-2012.
Mentor, Melissa Romaine, PhD Candidate, University of Washington, 2009-2011.
Mentor, Elana Feldman, Bachelor's Student, Oberlin, 2007-2008.
Mentor, HeeYon Sohng, Post-doctoral Fellow, Harborview, 2007.
Mentor, Megan Welsh, MPH Student, University of Washington, 2006-2007.
Mentor, Anthony Crest, MPH Student, University of Washington, 2004-2005.